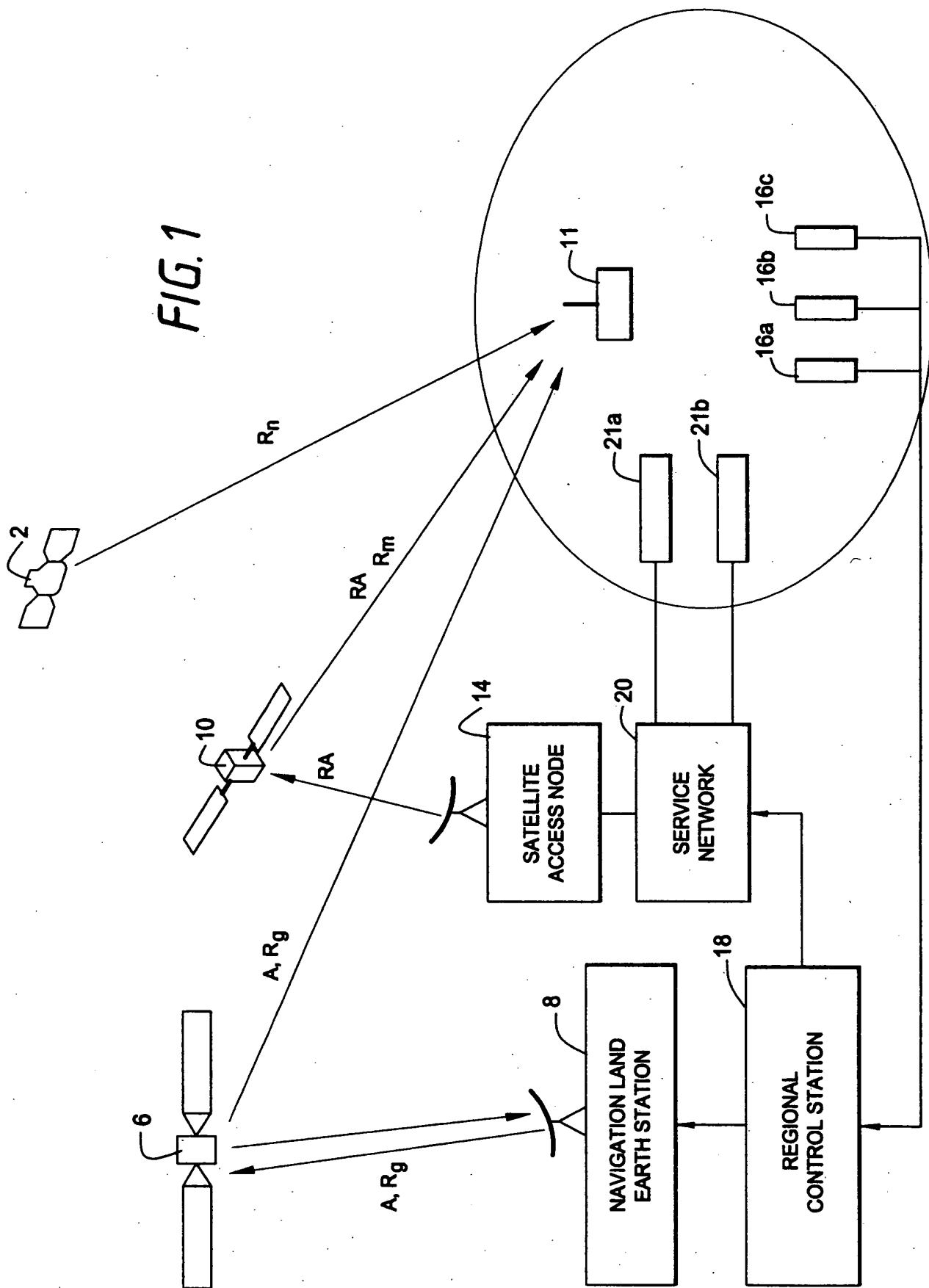


FIG. 1 is a block diagram illustrating a satellite navigation system architecture. The system includes the following components and connections:

- Navigation Land Earth Station (8):** A ground station that communicates with the Navigation Satellite (6) and the Regional Control Station (18). It is connected to the Regional Control Station (18) via a bidirectional link.
- Navigation Satellite (6):** A satellite in orbit that receives signals from the Navigation Land Earth Station (8) and transmits signals to the Satellite Access Node (14) and the Mobile Station (10). The signal path from the Navigation Land Earth Station (8) to the Navigation Satellite (6) is labeled A, R_g .
- Satellite Access Node (14):** A ground station that receives signals from the Navigation Satellite (6) and transmits signals to the Mobile Station (10). The signal path from the Satellite Access Node (14) to the Mobile Station (10) is labeled RA .
- Service Network (20):** A network that connects the Satellite Access Node (14) to the Regional Control Station (18) and the Mobile Station (10). It is connected to the Satellite Access Node (14) via a bidirectional link and to the Regional Control Station (18) via a bidirectional link.
- Regional Control Station (18):** A ground station that manages the system, receiving signals from the Navigation Land Earth Station (8) and the Service Network (20), and transmitting signals to the Navigation Land Earth Station (8) and the Service Network (20).
- Mobile Station (10):** A user device that receives signals from the Navigation Satellite (6) and the Satellite Access Node (14). It is connected to the Service Network (20) via a bidirectional link.
- Service Network (20) Details:** The Service Network (20) is further detailed as a network of components including a **Satellite Access Node (11)**, a **Service Network (21a)**, and a **Service Network (21b)**. These components are connected to a set of **Mobile Stations (16a, 16b, 16c)**.



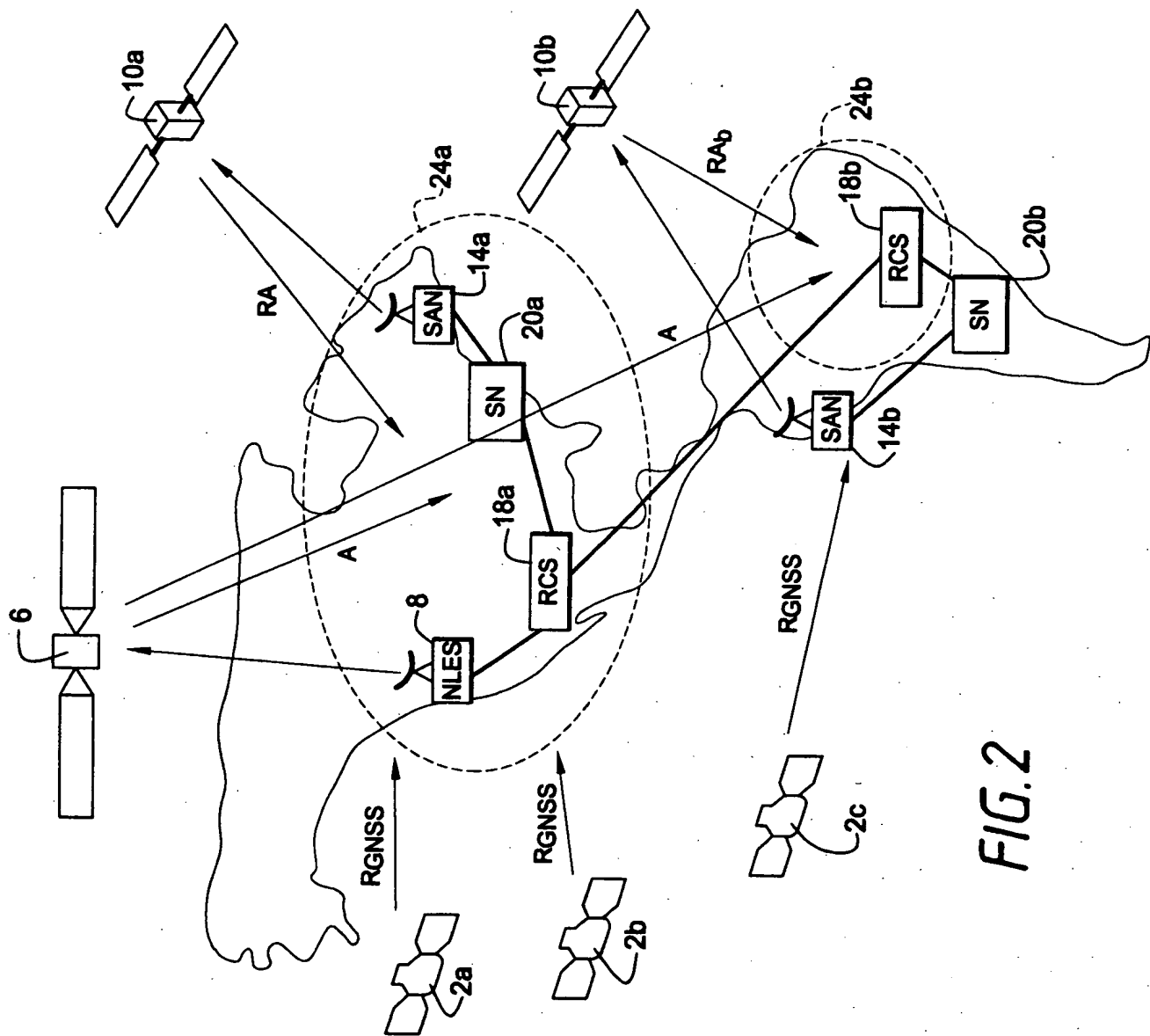


FIG. 2

FIG. 3

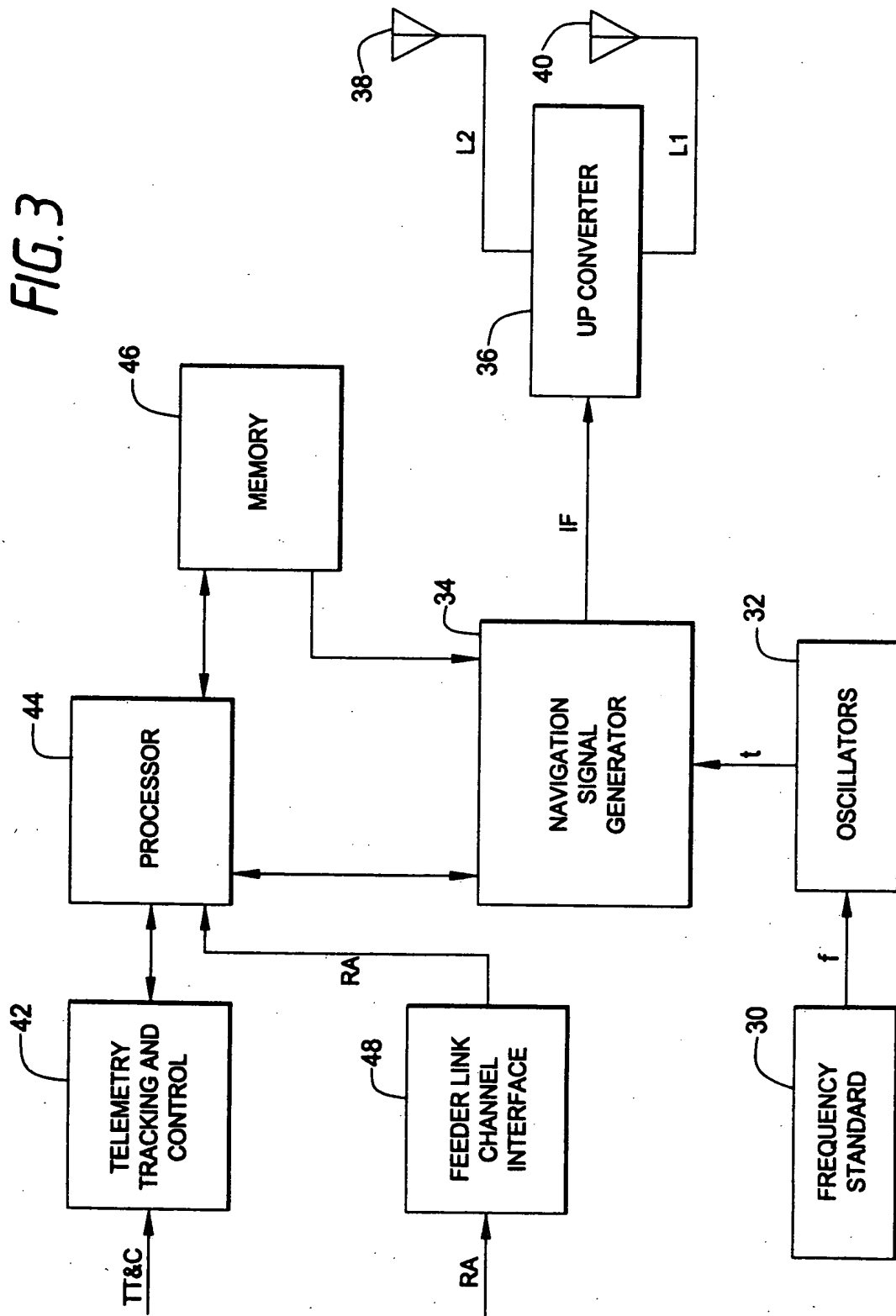


FIG. 4

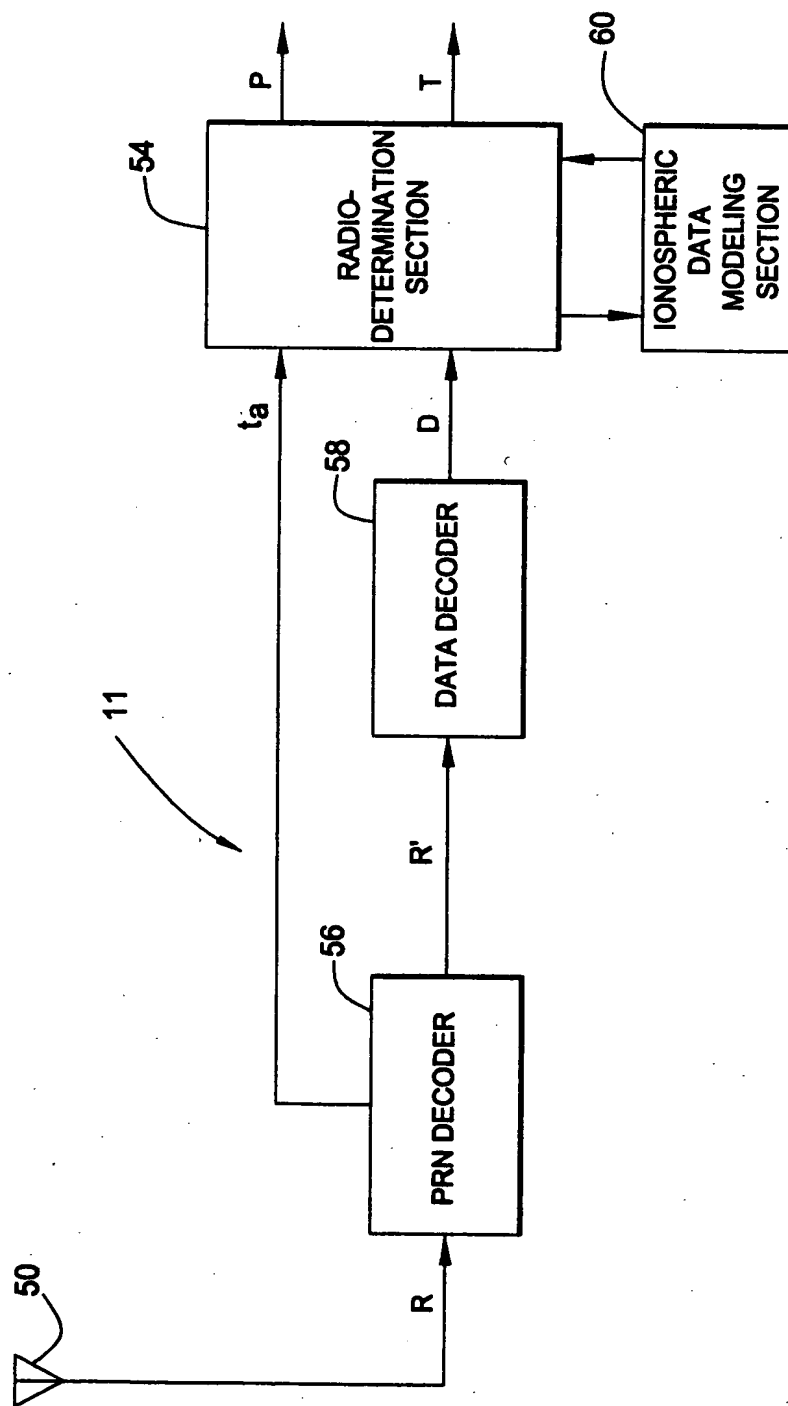


FIG. 5

